

Title (en)

ADAPTIVE OPTICAL DEVICE OF SIMPLIFIED CONSTRUCTION AND ASSOCIATED MANUFACTURING METHOD

Title (de)

ADAPTIVE OPTISCHE VORRICHTUNG MIT VEREINFACHTER KONSTRUKTION UND ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)

DISPOSITIF D'OPTIQUE ADAPTATIVE DE CONSTRUCTION SIMPLIFIEE ET PROCEDE DE FABRICATION ASSOCIE

Publication

EP 3853649 B1 20230802 (FR)

Application

EP 20780767 A 20200826

Priority

- FR 1909594 A 20190830
- FR 2020000227 W 20200826

Abstract (en)

[origin: WO2021038140A1] The invention concerns an adaptive optical device (1) comprising a deformable plate (2) intended to deform an incident wavefront by refraction and/or reflection, characterised in that it comprises: - tabs (5) fixedly attached to the plate (2), - a frame (21) fixed relative to the plate (2), each tab (5) comprising a moving portion (22) connected to at least one respective peripheral actuator (7) in order that the latter can locally deform the tab (5) in order that the tab transmits a deformation force to the deformable plate (2), each tab (5) further comprising a respective fixed portion (23) fixedly attached to the frame (21) in order to be immobilised relative to the frame. The invention is particularly suitable for the introduction or controlled correction of an optical aberration in an incident wavefront.

IPC 8 full level

G02B 7/185 (2021.01); **G02B 26/06** (2006.01)

CPC (source: CN EP KR US)

G02B 7/185 (2013.01 - EP); **G02B 26/06** (2013.01 - CN EP); **G02B 26/0825** (2013.01 - CN KR US); **G02B 26/0875** (2013.01 - KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2021038140 A1 20210304; CN 114375414 A 20220419; EP 3853649 A1 20210728; EP 3853649 B1 20230802; EP 3853649 C0 20230802; FR 3100344 A1 20210305; FR 3100344 B1 20210924; JP 2022546280 A 20221104; KR 20220143808 A 20221025; US 11774747 B2 20231003; US 2022214538 A1 20220707

DOCDB simple family (application)

FR 2020000227 W 20200826; CN 202080057762 A 20200826; EP 20780767 A 20200826; FR 1909594 A 20190830; JP 2022510888 A 20200826; KR 20227009709 A 20200826; US 202017607528 A 20200826